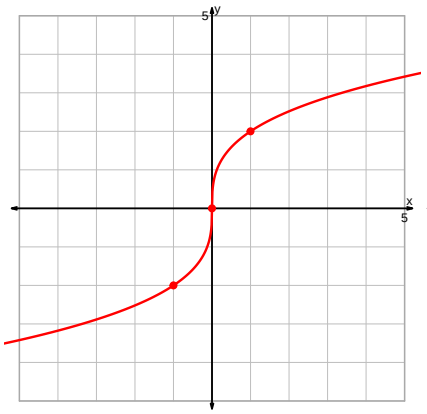
NAME: DATE:

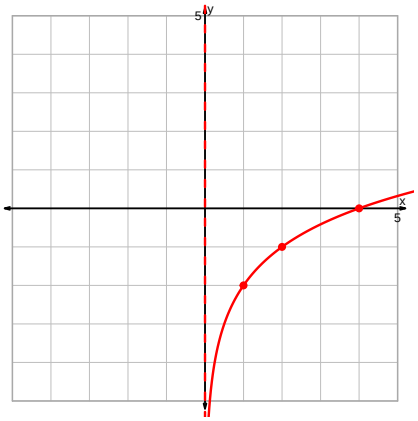
Unit-2 Reduced Mastery Assessment (version 303)

Question 1 (20 points)

Graph the equations accurately. For each integer-integer point on the parent, indicate the corresponding point precisely. Also, with dashed lines, indicate any asymptotes.

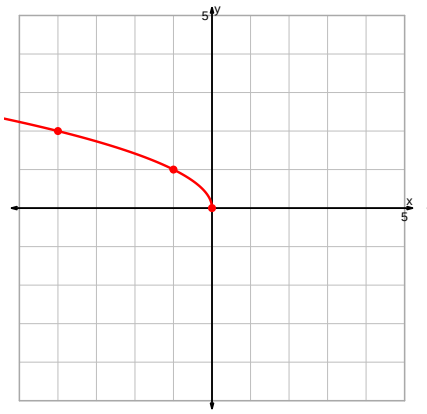
$y = 2 \cdot \sqrt[3]{x}$

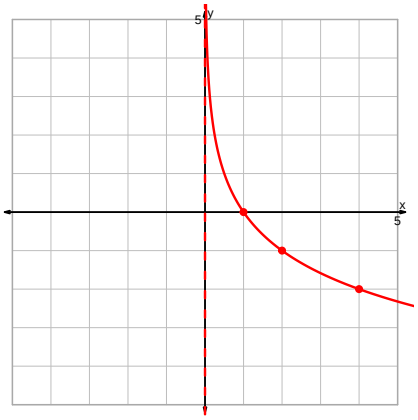




$y = \log_2(x) - 2$

$y = \sqrt{-x}$

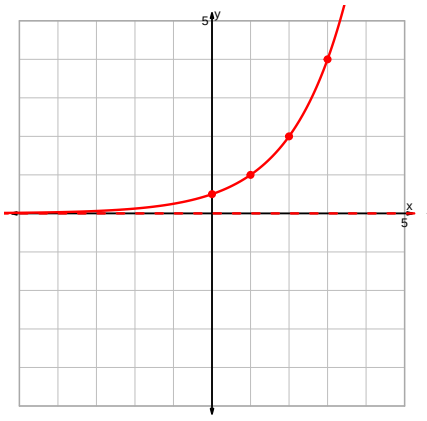


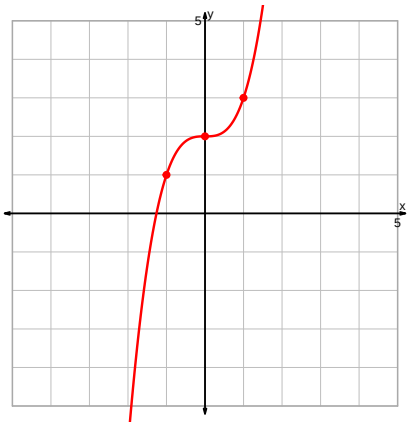


$y = -\log_2(x)$

Question 2 continued. . .

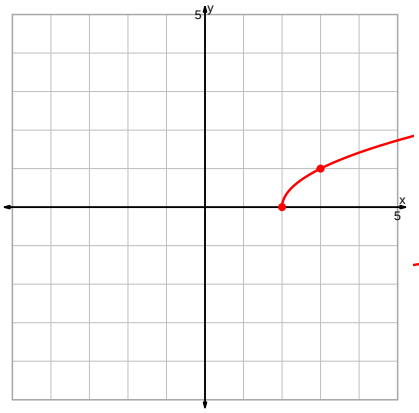
$y = \frac{2^x}{2}$

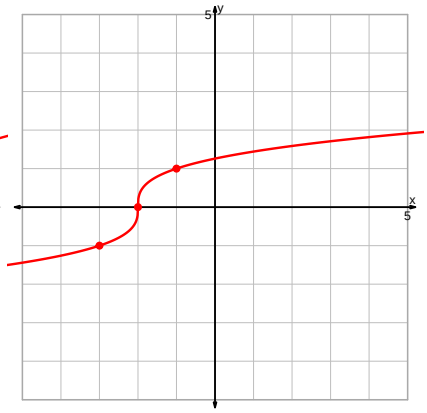




$y = x^3 + 2$

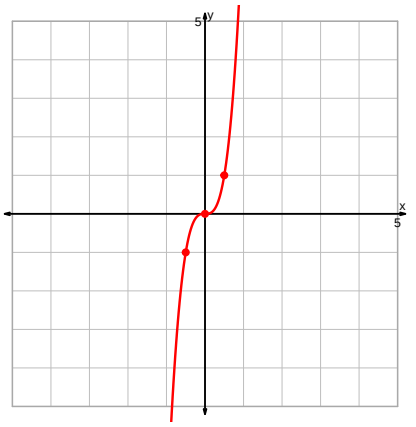
$y = \sqrt{x-2}$

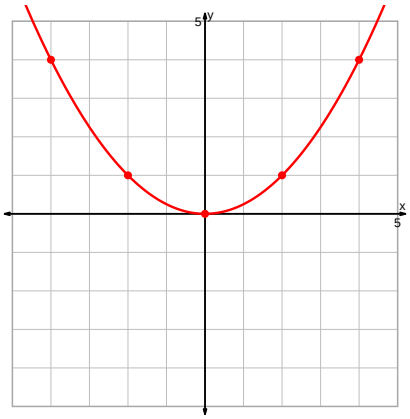




$y = \sqrt[3]{x+2}$

$y = (2x)^3$

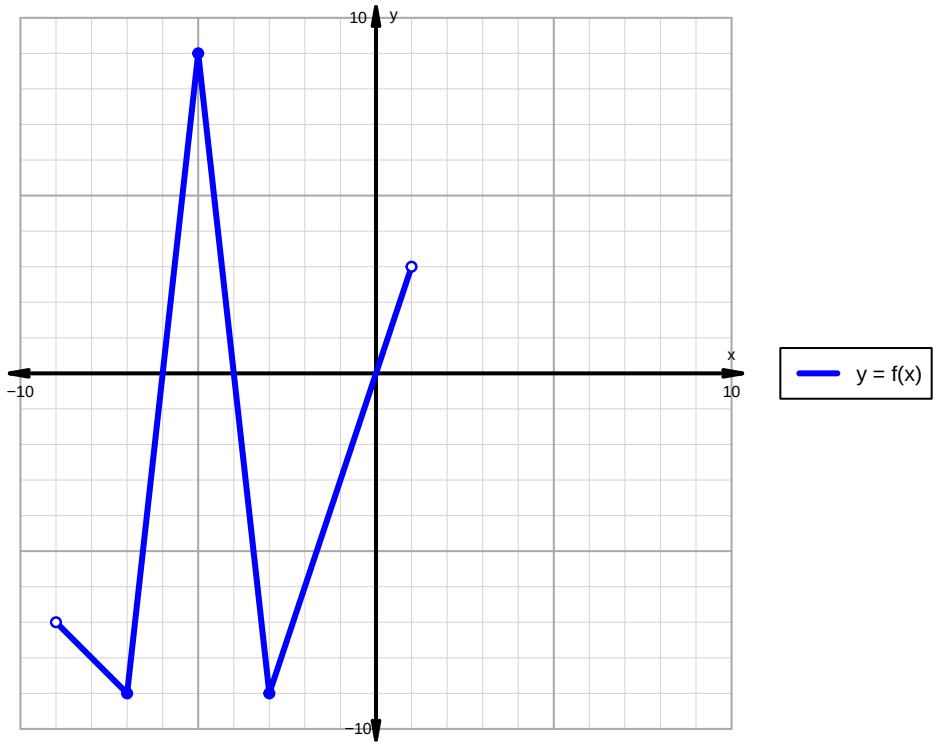




$y = \left(\frac{x}{2}\right)^2$

Question 2 (20 points)

A function is graphed below.



Indicate the following intervals using interval notation.

Feature	Where
Positive	$(-6,-4) \cup (0,1)$
Negative	$(-9,-6) \cup (-4,0)$
Increasing	$(-7,-5) \cup (-3,1)$
Decreasing	$(-9,-7) \cup (-5,-3)$
Domain	$(-9,1)$
Range	$(-9,9)$